

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q76492

Yasuaki WAKIZAKA, et al

Appln. No.: National Stage of PCT/JP2004/009888

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: January 3, 2006

Examiner: Unknown

For: SOL CONTAINING TITANIUM DIOXIDE, THIN FILM FORMED THEREFROM AND  
PRODUCTION PROCESS OF THE SOL

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

INFORMATION DISCLOSURE STATEMENT  
Appln. No.: National Stage of PCT/JP2004/009888  
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filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of an English-language International Search Report from the International Searching Authority in the International Application citing such documents, including at least that portion of the International Search Report indicating the degree of relevance found by the International Searching Authority.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations: English language abstracts, submitted herewith, constitute concise statements of relevance for Japanese Patent Application Publication Nos. 2001-72419, 2001-205094, 2000-262906, 10-245439, 2002-239395, 2000-143241. In addition, each of the seven (7) listed Japanese patent documents is cited and discussed in the present specification.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.


Respectfully submitted,

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Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known **10/563218**

Sheet		1	of	1	Application Number	National Stage of PCT/JP2004/009888
					Confirmation Number	Unknown
					Filing Date	January 3, 2006
					First Named Inventor	Yasuaki WAKIZAKA
					Art Unit	Unknown
					Examiner Name	
					Attorney Docket Number	Q76492

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 2001/0016264	A1	08/23/2001	MASAHIRO OHMORI, ET AL
		US 2004/0121903	A1	06/24/2004	KATSURA ITO, ET AL
		US			
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		EP	1 053 788	A1	11/22/2000	TOTO LTD.	
		WO	00/04993	A1	02/03/2000	KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY	
		DE	199 62 055	A1	06/28/2001	IWT STIFTUNG INST FUER WERKSTO	
		JP	2001-72419	A	03/21/2000	SUMITOMO CHEMICAL CO.	Abstract
		JP	2001-205094	A	07/31/2001	TOYOTA CENTRAL RES. & DEV.	Abstract
		JP	6-87979	B2	11/09/1994		
		JP	2000-262906	A	09/26/2000	KOMATSU AKIO; DAIKEN KAGAKU KOGYO KK; JAPAN SCIENCE & TECH CORP.	Abstract
		JP	10-245439	A	09/14/1998	MASUDA TAZAEMON; OGAWA ATSUSHI	Abstract
		JP	2002-239395	A	08/27/2002	ISHIHARA SANGYO KAISHA	Abstract
		JP	2000-143241	A	05/23/2000	NIPPON ALUMINIUM CO. LTD.	Abstract

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		JAMES C. KENNEDY III, ET AL, "PHOTOTHERMAL HETEROGENEOUS OXIDATION OF ETHANOL OVER P/TiO <sub>2</sub> ", JOURNAL OF CATALYSIS, Vol. 179, 1998, pages 375-389	
		SHINRI SATO, "PHOTOCATALYTIC ACTIVITY OF NO <sub>x</sub> -DOPED TiO <sub>2</sub> IN THE VISIBLE LIGHT REGION", CHEMICAL PHYSICS LETTERS, Vol. 123, No. 1, 2, January 3, 1986, pages 126-128	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.